

**REFORMER TEMPERATURE CONTROL DEVICE FOR FUEL CELL
POWER GENERATION SYSTEM**

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Abstract

PURPOSE: To control the temperature of a reformer constantly in a good condition and to improve the reforming property, by exercising the temperature control of the reformer with a vent valve and an auxiliary burner valve, and computing the air flow object value by detecting the exhaust gas components of the fuel cell.

CONSTITUTION: A vent valve 18 to release the exhaust gas on the fuel cell exhaust gas line, and a detector 19 to detect the component ratio of the methane and the hydrogen of the exhaust gas are furnished. Then, the measurement signal of the detector 19, the measurement signal of a flow meter 12 to measure the auxiliary burner flow, the measurement signal of a flow meter 21 to measure the vent flow, and the measurement signal of a thermometer 10 to measure the temperature of a reformer are input to a control device 20 to output the opening signals of a control valve 8 and the vent valve 18 to obtain the set temperature object value. Moreover, the signals of the detector 19, the flow meters 12 and 21, a flow meter 14 to measure the cell exhaust gas flow, and a flow meter 16 to measure the air flow fed to the reformer are input to a device 22 to determine the opening of an air control valve 9 to approach to the flow object value responding to the combustion.

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